

## I CLAIM

1. A micro-adjusting device for the angle atop plank of a planer comprising: a wood conveying table, said wood conveying table connected with a holding frame at one side, said holding frame connected with a stop plank, said stop plank positioned at one side on the topside of said wood conveying table for positioning a wood material, and characterized by:

A hand wheel unit composed of a hand wheel and a worm, said worm actuated by said hand wheel to rotate, said worm vertically inserted in a preset part of said holding frame:

A transmission rod transversely inserted in a preset part of said holding frame, said transmission rod having one end formed with a worm wheel, said worm wheel meshed with said worm of said hand wheel unit, said transmission rod having the other end formed with a transmission gear:

An upper connecting rod having its front end pivotally connected with a preset part on the rear wall of said stop plank, said upper connecting rod having its rear end formed with a guiding groove, said guiding groove having its upper edge provided with multiple row teeth, said multiple row teeth meshed with said transmission gear of said transmission rod:

A lower connecting rod having its rear end pivotally connected with said holding frame, said lower

connecting rod having its front end pivotally connected with said stop plank: and

Said hand wheel turned to actuate said upper connecting rod to move back and forth through said worm, said upper connecting rod pulling or pushing said stop plank, said stop plank able to be freely adjusted and positioned at a required angle by the turning fulcrums respectively formed at the front and the rear pivotal joint of said lower connecting rod.

10           2. The micro-adjusting device for the angle stop plank of a planer as claimed in Claim 1, wherein said holding frame has an accommodating space formed in the center for receiving said upper connecting rod therein and a locking handle transversely and pivotally inserted  
15 in the opposite side of said transmission rod, said locking handle having its end screwed with a lock block, said locking block fitted and limited to rotate in the opposite side of said guiding groove of said upper connecting rod, said locking block able to tighten or  
20 release said upper connecting rod when said locking handle is turned around.

3. The micro-adjusting device for the angle stop plank of a planer as claimed in Claim 1, wherein said holding frame is formed integral with a stop base  
25 protruding upward on one side abutting said upper connecting rod, and said stop base has a stop block pivotally provided thereon, said stop block able to be

turned inward and positioned on said upper connecting rod in due time, said upper connecting rod provided with a bolt base protruding upward at a preset part on the topside and a stop bolt screwed on said bolt base, said stop plank able to be quickly adjusted and positioned at a right angle when said stop bolt and said stop block push against each other.

4. The micro-adjusting device for the angle stop plank of a planer as claimed in Claim 1, wherein said lower connecting rod is shaped a plate having a stop bolt screwed at a preset location on the topside, said stop bolt exactly pushing against a preset part on the rear wall of said stop plank when said stop plank is adjusted, thus said stop plank able to be quickly adjusted and positioned at an exterior angle of 45 degrees.

5. The micro-adjusting device for the angle stop plank of a planer as claimed in Claim 1, wherein said upper connecting rod has a stop bolt screwed at a preset location on the topside, said stop bolt exactly pushing against a preset part on the topside of said lower connecting rod when said stop plank is adjusted, thus said stop plank able to be quickly adjusted and positioned at an interior angle of 45 degrees.

6. The micro-adjusting device for the angle stop plank of a planer as claimed in Claim 1, wherein said upper connecting rod has the topside above said guiding groove provided with a graduation ruler having angle

graduations marked thereon, and said holding frame has its topside provided with an index hand pointing to said graduation ruler to indicate a positioning angle of said stop plank after said stop plank is adjusted.

5           7. The micro-adjusting device for the angle stop plank of a planer as claimed in Claim 1, wherein said multiple row teeth in said guiding groove of said upper connecting rod is a rack directly fixed in said guiding groove from the upper side of said upper connecting rod.

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